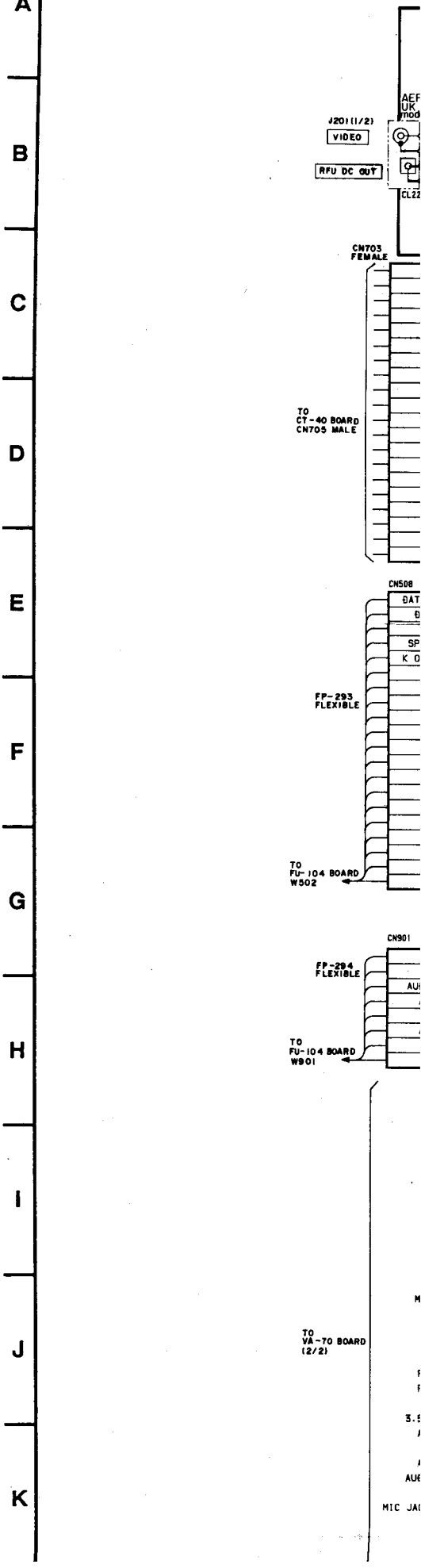
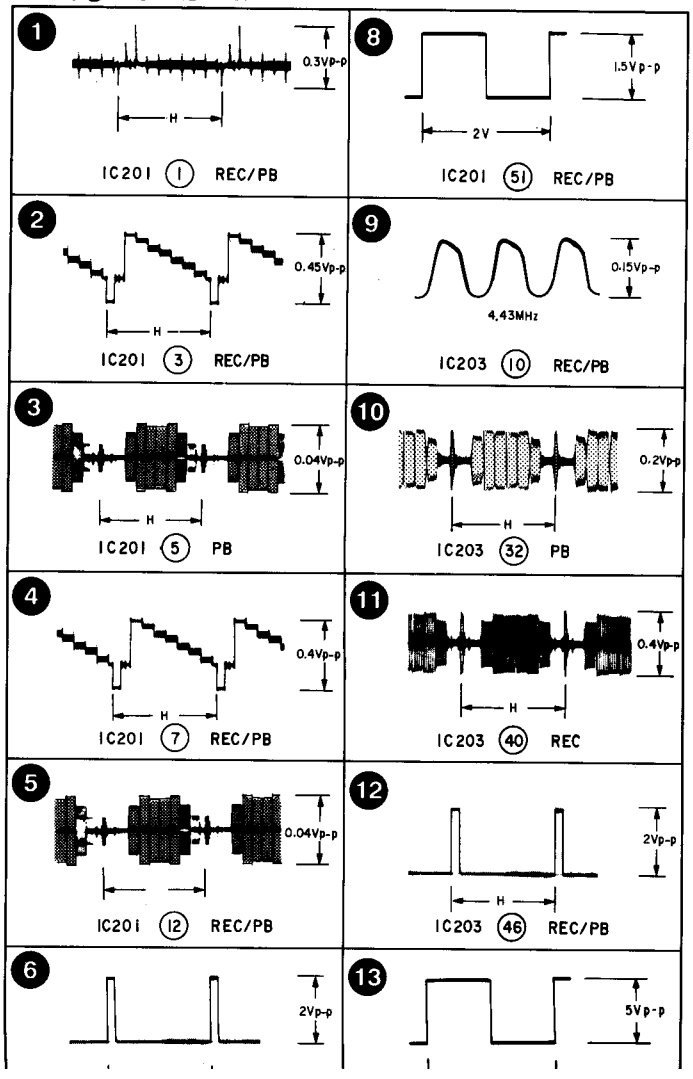
VA-70 (1/2) (VIDEO PROCESS) SCHEMA

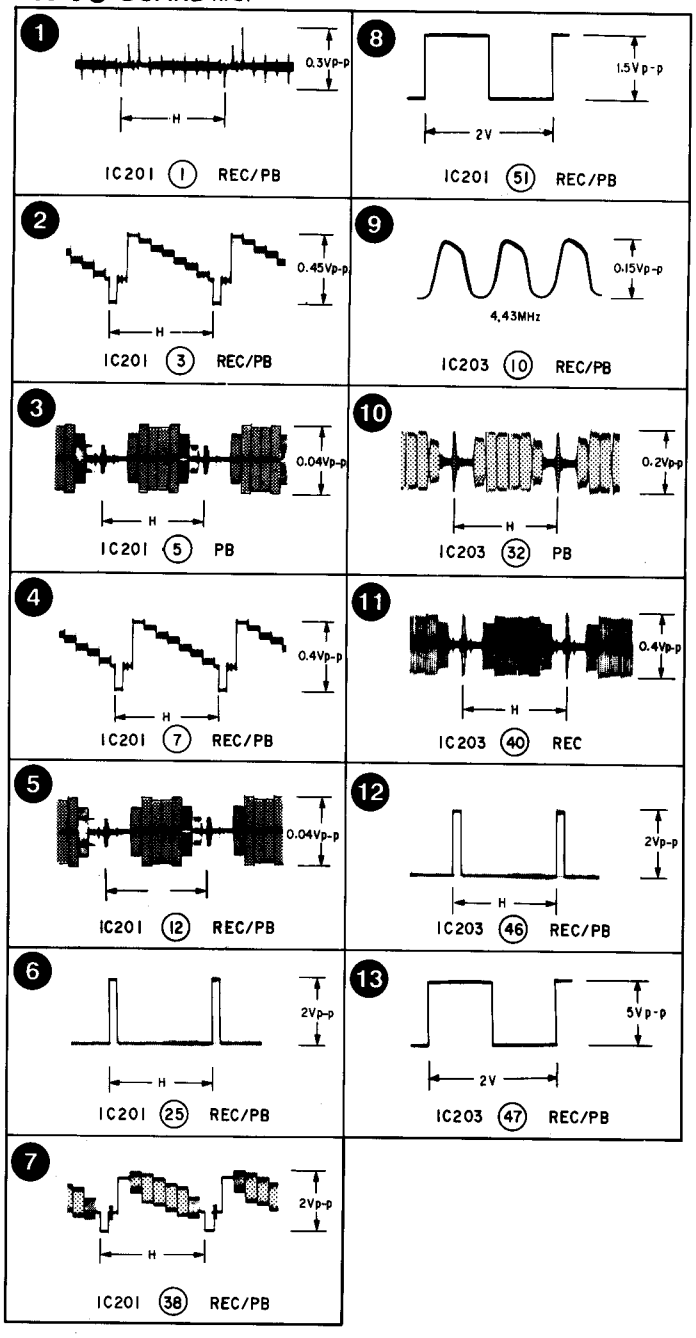
— Ref. No. VA-70 (1/2) BOARD: 1000 series —

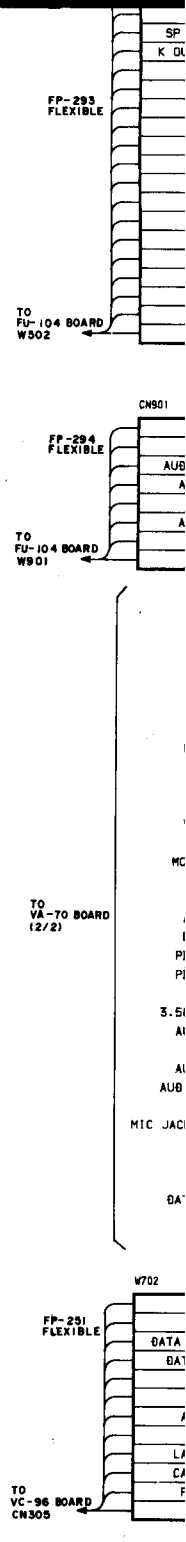


VA-70 BOARD (1/2)



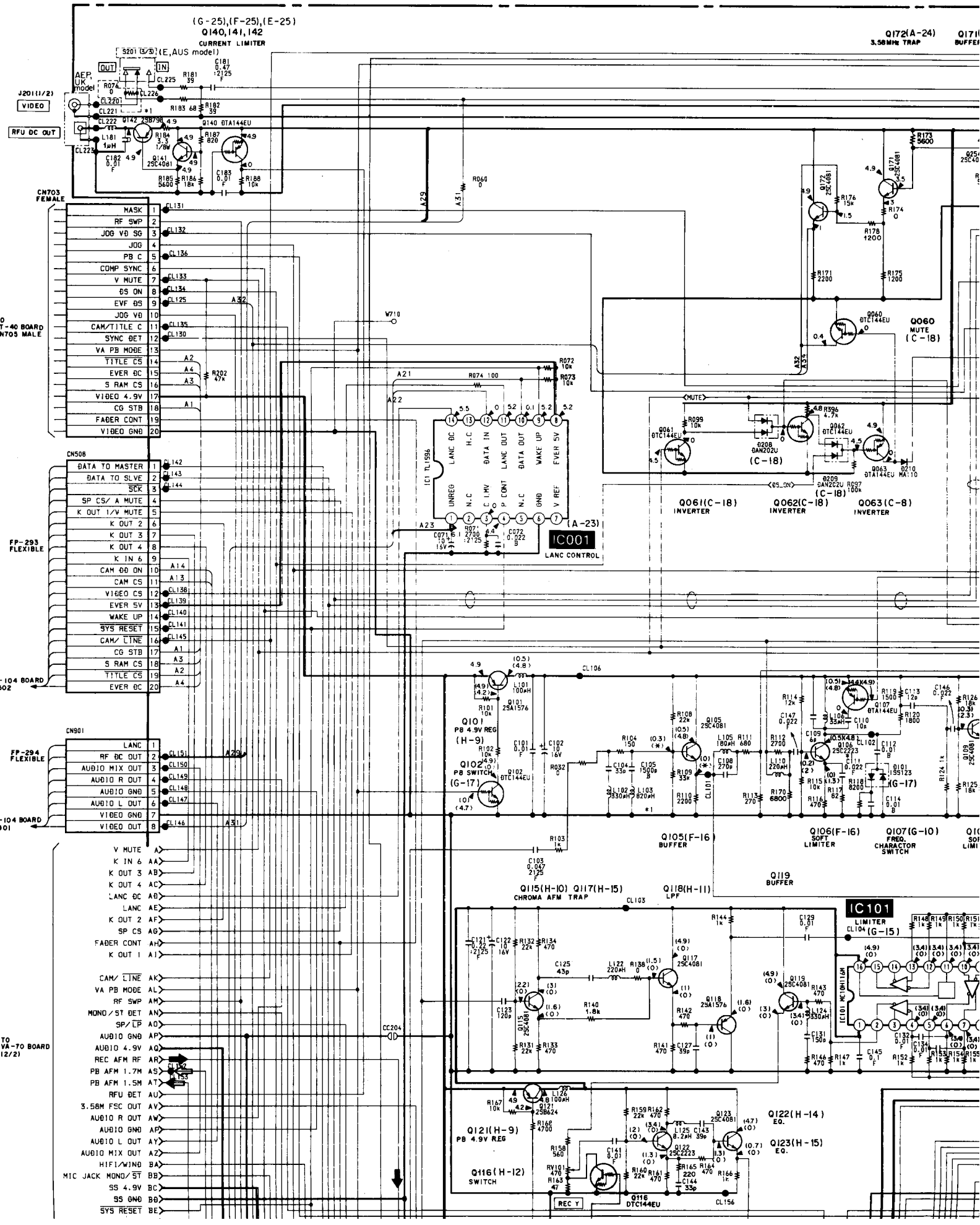
VA-70 BOARD (1/2)

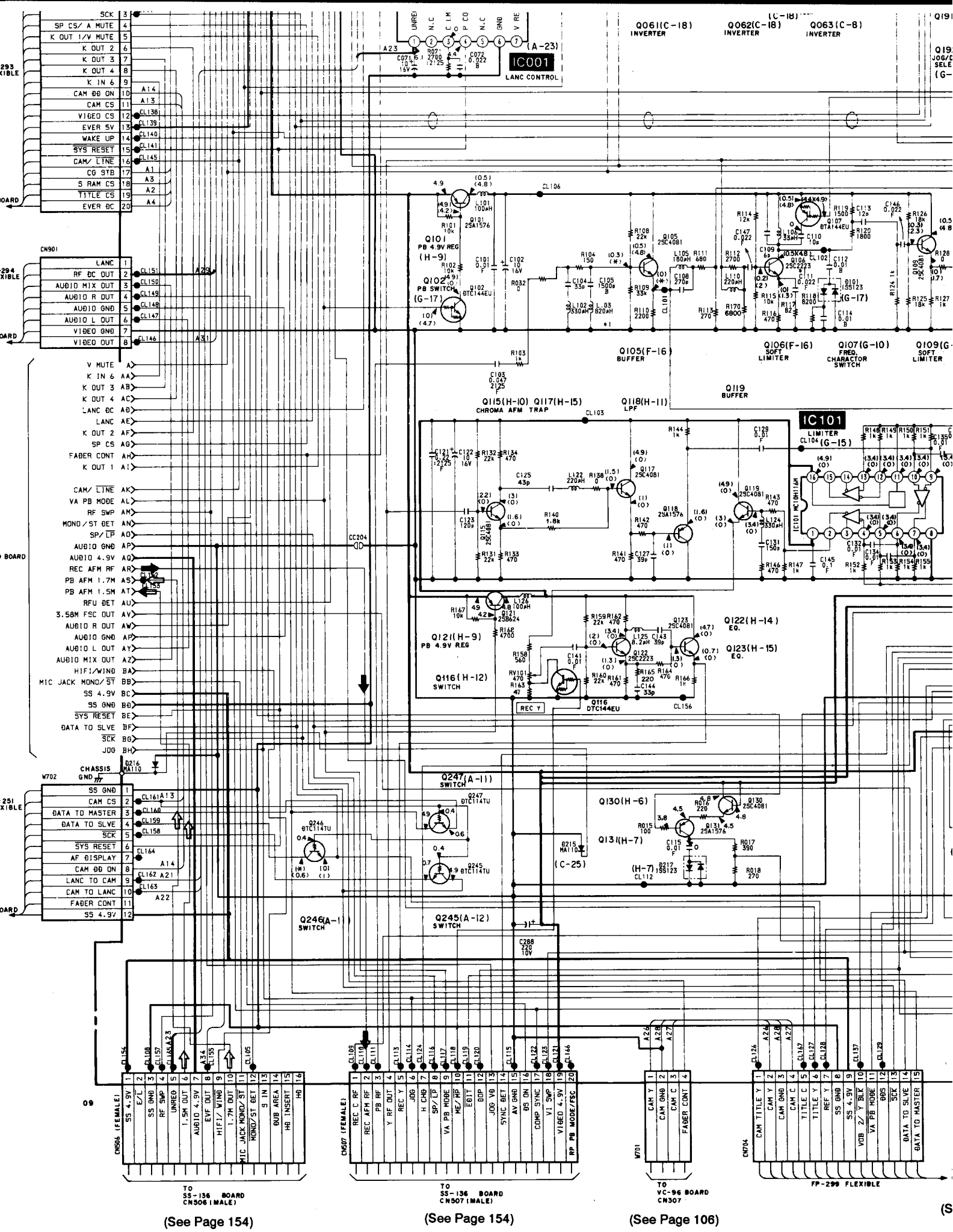


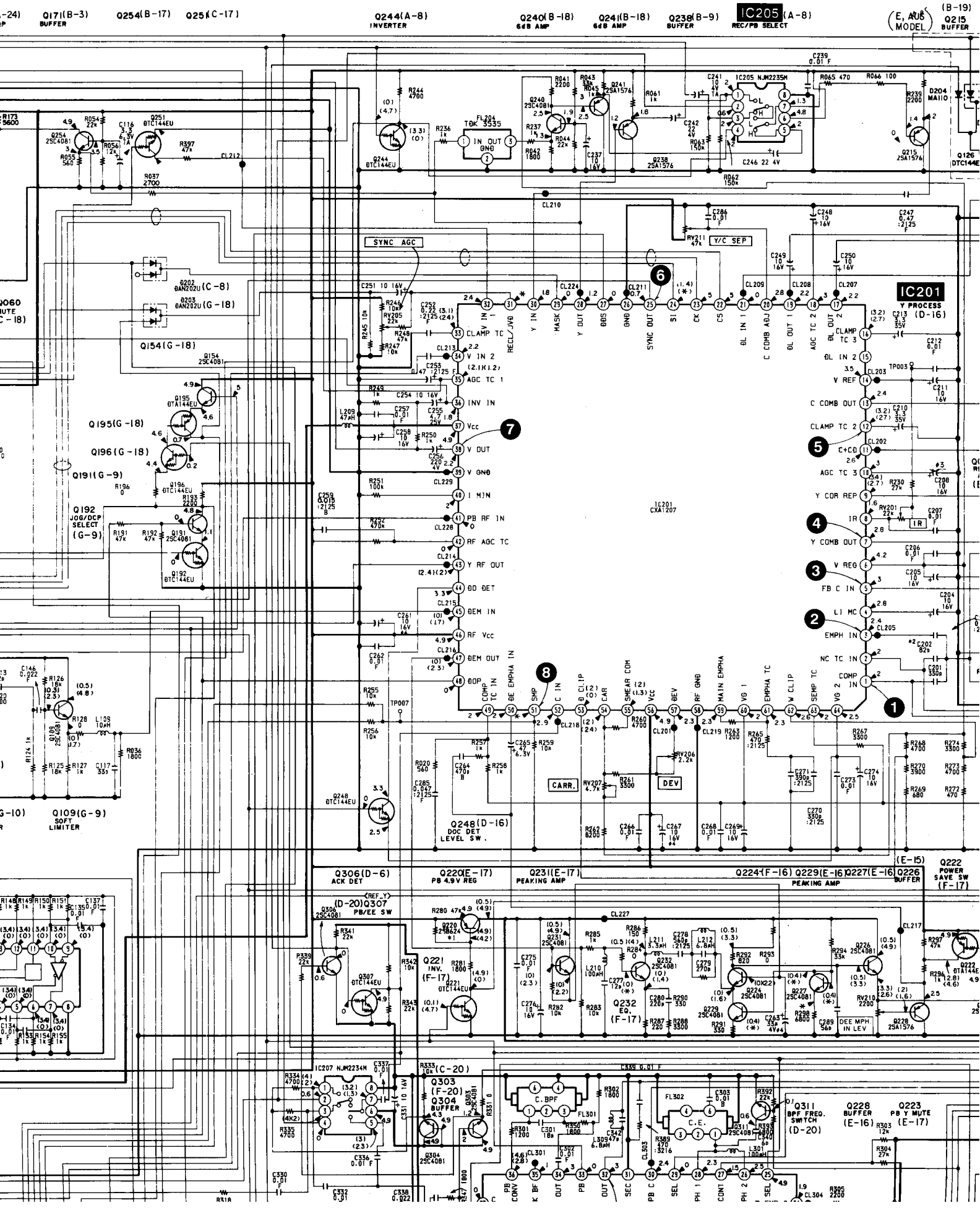


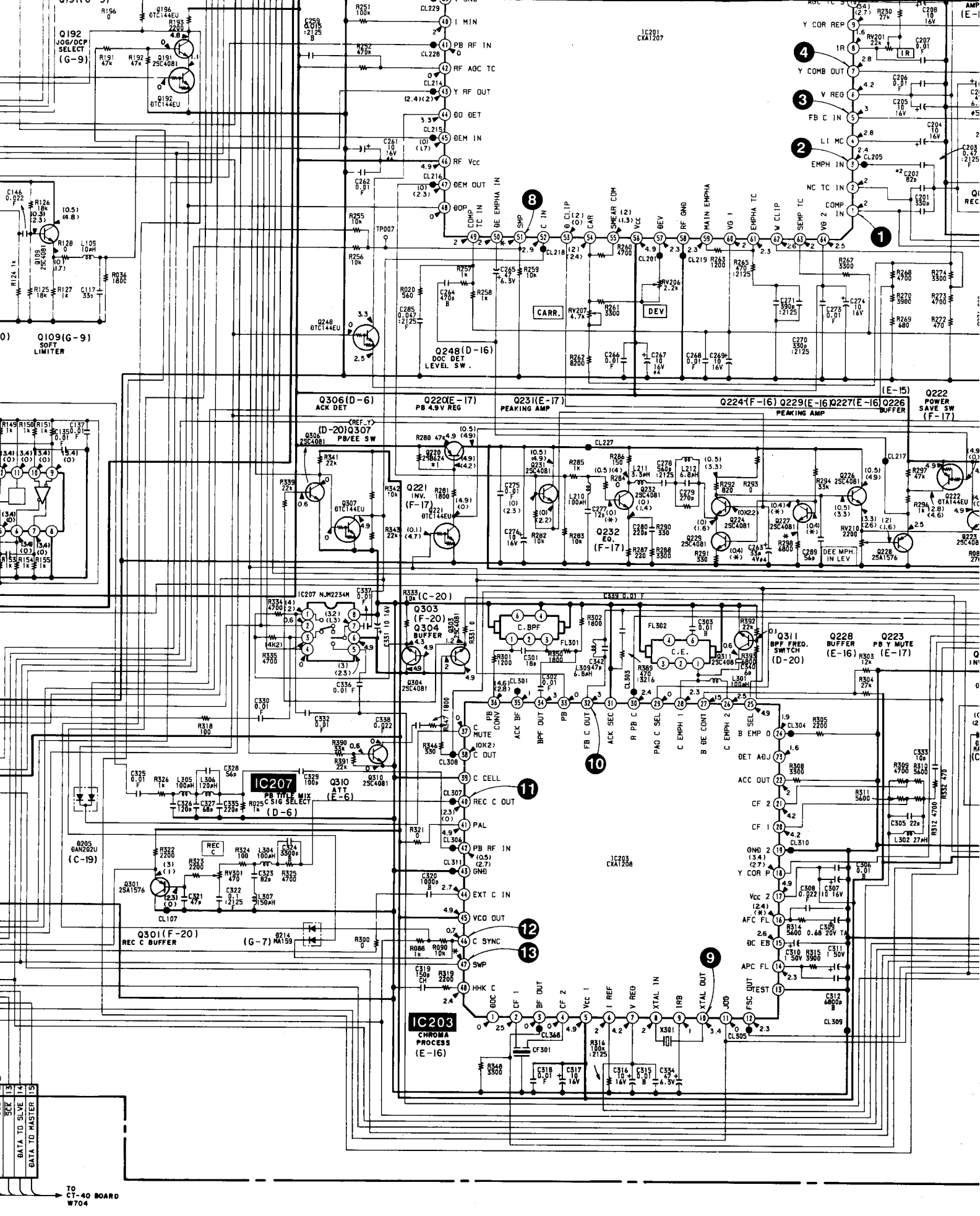
- **SIGNAL PATH**

	VIDEO SIGNAL			AUDIO SIGNAL
	CHROMA	Y	Y/CHROMA/DATA	
REC	➡	➡	➡	➡
PB	⇨	⇨	⇨	⇨

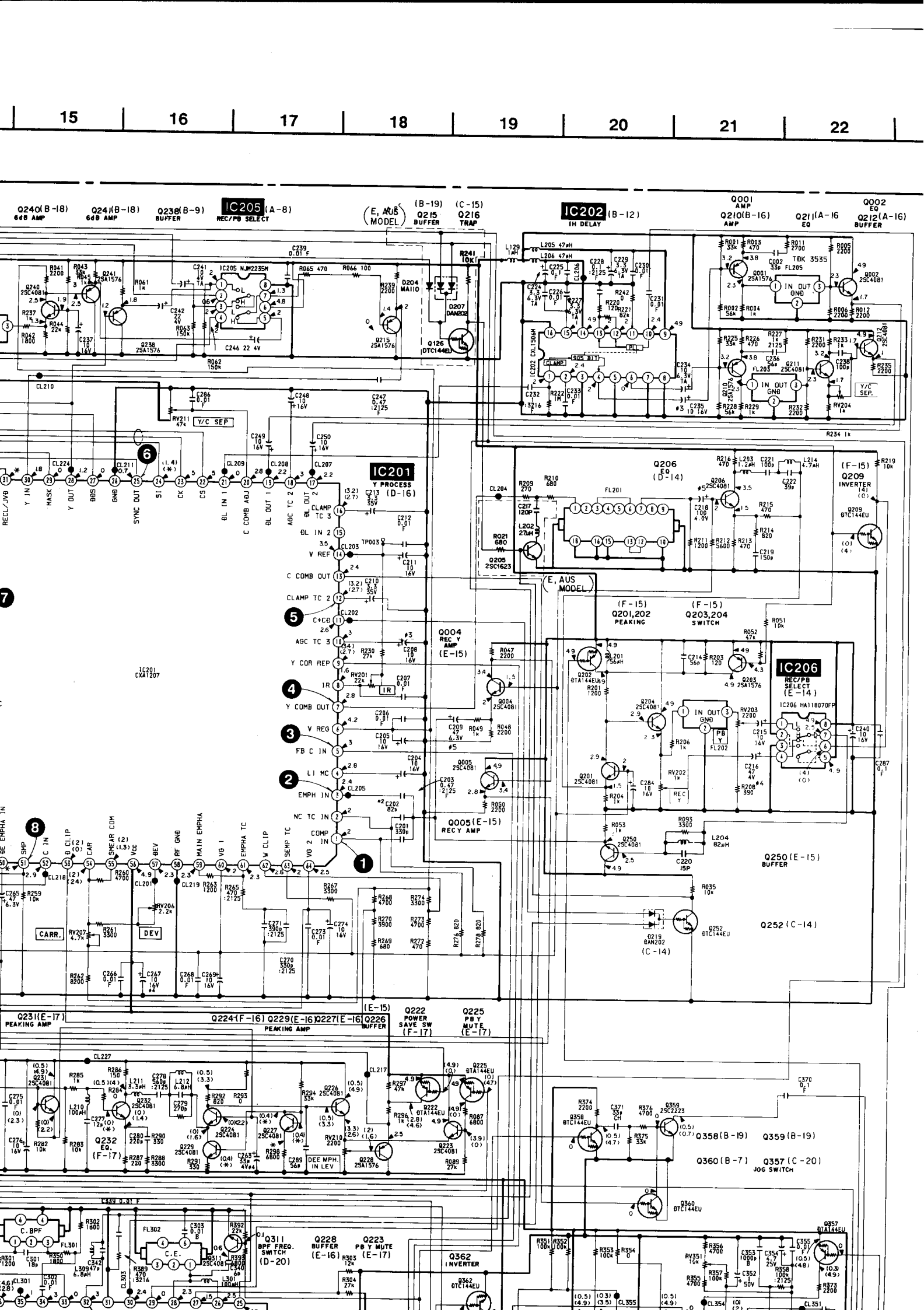

(G-25),(F-25),(E-25)
Q140,141,142
CURRENT LIMITER
(E,AUS model)
AEP, UK model
J201(1/2)
VIDEO
RFU DC OUT
CN703 FEMALE
MASK
RF SWP
JOG VΦ SG
JOG
PB C
COMP SYNC
V MUTE
ΦS ON
EVF ΦS
JOG VΦ
CAM/TITLE C
SYNC ΦET
VA PB MODE
TITLE CS
EVER ΦC
S RAM CS
VIDEO 4.9V
CG STB
FADER CONT
VIDEO GNΦ
CN508
DATA TO MASTER
DATA TO SLVE
SCK
SP CS/ A MUTE
K OUT 1/V MUTE
K OUT 2
K OUT 3
K OUT 4
K IN 6
CAM ΦΦ ON
CAM CS
VIDEO CS
EVER 5V
WAKE UP
SYS RESET
CAM/ LINE
CG STB
S RAM CS
TITLE CS
EVER ΦC
CN901
LANC
RF ΦC OUT
AUDIO MIX OUT
AUDIO R OUT
AUDIO GNΦ
AUDIO L OUT
VIDEO GNΦ
VIDEO OUT
V MUTE
K IN 6
K OUT 3
K OUT 4
LANC ΦC
LANC
K OUT 2
SP CS
FADER CONT
K OUT 1
CAM/ LINE
VA PB MODE
RF SWP
MONO/ST ΦET
SP/ LP
AUDIO GNΦ
AUDIO 4.9V
REC AFM RF
PB AFM 1.7M
PB AFM 1.5M
RFU ΦET
3.58M FSC OUT
AUDIO R OUT
AUDIO GNΦ
AUDIO L OUT
AUDIO MIX OUT
HIFI/WIND
MIC JACK MONO/ST
5S 4.9V
5S GNΦ
SYS RESET
IC1 TL1596
IC001
LANC CONTROL
Q172(A-24)
3.58MHz TRAP
Q060
MUTE
Q061(C-18)
INVERTER
Q062(C-18)
INVERTER
Q063(C-8)
INVERTER
Q10
PB 4.9V REG
Q102
PB SWITCH
Q105(F-16)
BUFFER
Q106(F-16)
SOFT LIMITER
Q107(G-10)
FREQ. CHARACTOR SWITCH
Q119
BUFFER
Q115(H-10) Q117(H-15)
CHROMA AFM TRAP
Q118(H-11)
LPF
IC101
LIMITER
Q121(H-9)
PB 4.9V REG
Q116(H-12)
SWITCH
Q122(H-14)
EQ.
Q123(H-15)
EQ.
REC Y
Q116
DTC144EU
TO VA-70 BOARD (2/2)
T-40 BOARD
N705 MALE
FP-293 FLEXIBLE
-104 BOARD
FP-294 FLEXIBLE
-104 BOARD

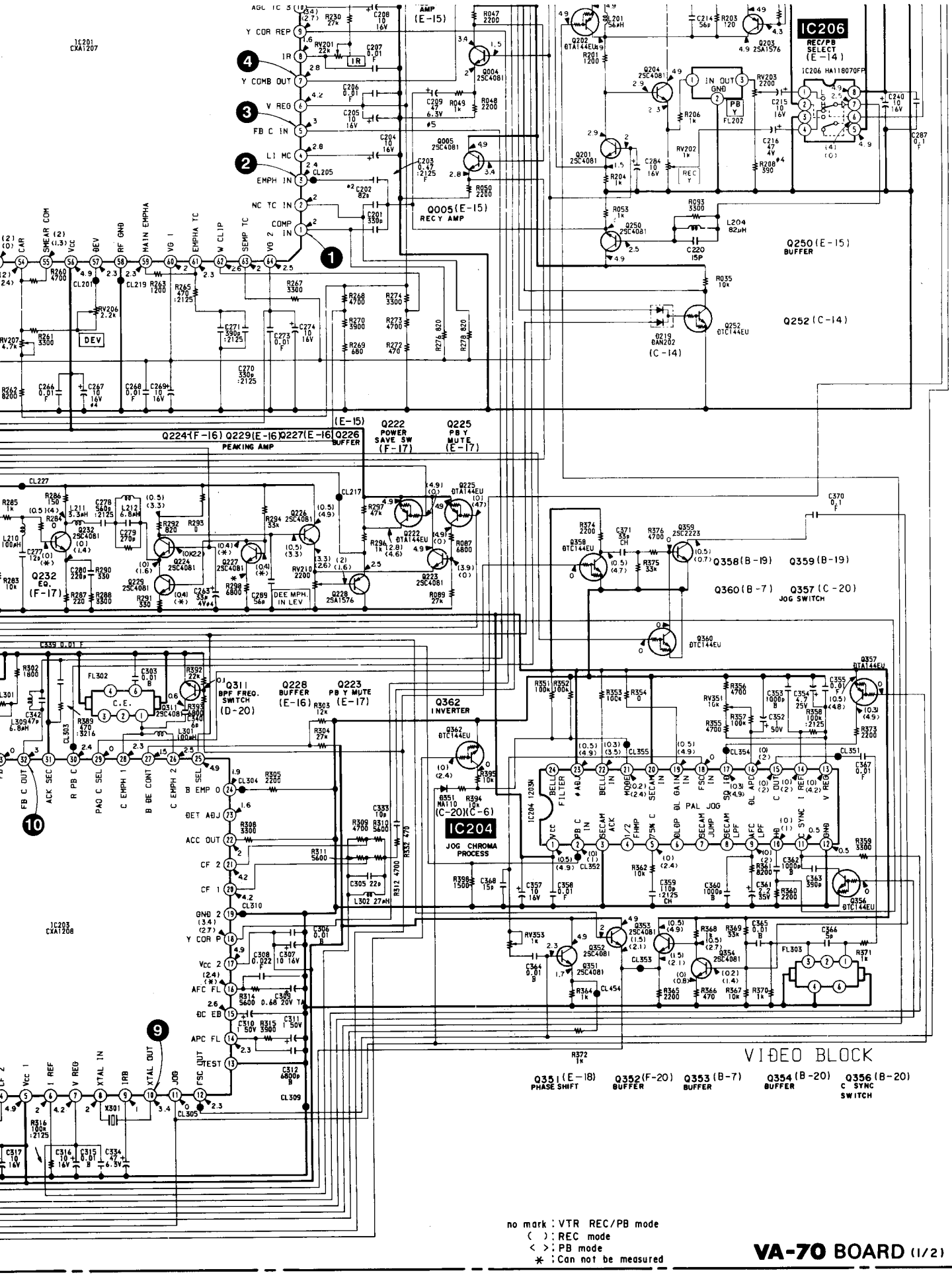

IC001
LANC CONTROL
IC101
LIMITER
Q101 PB 4.9V REG (H-9)
Q102 PB SWITCH (G-17)
Q105(F-16) BUFFER
Q106(F-16) SOFT LIMITER
Q107(G-10) FREQ. CHARACTOR SWITCH
Q109(G- SOFT LIMITER
Q119 BUFFER
Q115(H-10) Q117(H-15) CHROMA AFM TRAP
Q118(H-11) LPF
Q121(H-9) PB 4.9V REG
Q122(H-14) EQ.
Q123(H-15) EQ.
Q116(H-12) SWITCH
Q247(A-11) SWITCH
Q246(A-1) SWITCH
Q245(A-12) SWITCH
Q130(H-6)
Q131(H-7)
Q061(C-18) INVERTER
Q062(C-18) INVERTER
Q063(C-8) INVERTER
CN901
W702
CHASSIS GND
LANC
RF DC OUT
AUDIO MIX OUT
AUDIO R OUT
AUDIO GND
AUDIO L OUT
VIDEO GND
VIDEO OUT
V MUTE
K IN 6
K OUT 3
K OUT 4
LANC DC
LANC
K OUT 2
SP CS
FADER CONT
K OUT 1
CAM/ LINE
VA PB MODE
RF SWP
MONO/ST DET
SP/ LP
AUDIO GND
AUDIO 4.9V
REC AFM RF
PB AFM 1.7M
PB AFM 1.5M
RFU DET
3.58M FSC OUT
AUDIO R OUT
AUDIO GND
AUDIO L OUT
AUDIO MIX OUT
HIFI/WIND
MIC JACK MONO/ ST
SS 4.9V
SS GND
SYS RESET
DATA TO SLVE
SCK
JOG
SS GND
CAM CS
DATA TO MASTER
DATA TO SLVE
SCK
SYS RESET
AF DISPLAY
CAM DD ON
LANC TO CAM
CAM TO LANC
FADER CONT
SS 4.9V
CN506 (FEMALE)
CN507 (FEMALE)
W701
CN704
TO SS-136 BOARD CN506 (MALE)
TO SS-136 BOARD CN507 (MALE)
TO VC-96 BOARD CN307
FP-299 FLEXIBLE
(See Page 154)
(See Page 154)
(See Page 106)


IC205 (A-8)
REC/PB SELECT
(E, AUS MODEL) (B-19)
Q215 BUFFER
Q244(A-8) INVERTER
Q240(B-18) 6dB AMP
Q241(B-18) 6dB AMP
Q238(B-9) BUFFER
Q171(B-3) BUFFER
Q254(B-17)
Q251(C-17)
Q202 DAN202U(C-8)
Q203 DAN202U(G-18)
Q154(G-18)
Q195(G-18)
Q196(G-18)
Q191(G-9)
Q192 JOG/DCP SELECT (G-9)
Q109(G-9) SOFT LIMITER
SYNC AGC
Y/C SEP
IC201 Y PROCESS (D-16)
IC201 CXA1207
CARR.
DEV
Q248(D-16) DOC DET LEVEL SW.
Q306(D-6) ACK DET
Q220(E-17) PB 4.9V REG
Q231(E-17) PEAKING AMP
Q224(F-16) Q229(E-16) Q227(E-16) Q226 BUFFER PEAKING AMP
Q222 POWER SAVE SW (F-17)
(D-20) Q307 PB/EE SW
Q221 INV. (F-17)
Q232 EQ. (F-17)
DEE MPH IN LEV
IC207 NJM2234M
Q303 (F-20)
Q304 BUFFER
C. BPF
C. E.
Q311 BPF FREQ. SWITCH (D-20)
Q228 BUFFER (E-16)
Q223 PB Y MUTE (E-17)
IR
RECL/JVB
Y IN
MASK
Y OUT
BBS
GND
SYNC OUT
SI
CK
CS
BL IN 1
C COMB ADJ
BL OUT 1
AGC TC 2
BL OUT 2
CLAMP TC 3
BL IN 2
V REF
C COMB OUT
CLAMP TC 2
C+CD
AGC TC 3
Y COR REP
Y COMB OUT
V REG
FB C IN
LI MC
EMPH IN
NC TC IN
COMP IN
CLAMP TC 1
V IN 2
AGC TC 1
INV IN
Vcc
V OUT
V GND
I MIN
PB RF IN
RF AGC TC
Y RF OUT
BD DET
BEM IN
RF Vcc
BEM OUT
BDP
COMP TC IN
BE EMPHA IN
SMP
C IN
B CLIP
CAR
SHEAR COM
VCC
BEV
RF GND
MAIN EMPHA
VG 1
EMPHA TC
W CLIP
SEMP TC
VG 2


IC207 NJM2234M
IC201 CXA1207
IC203 CXA1208
IC207 PB TITLE MIX C SIG SELECT (D-6)
IC203 CHROMA PROCESS (E-16)
Q248(D-16) DOC DET LEVEL SW.
Q306(D-6) ACK DET
Q220(E-17) PB 4.9V REG
Q231(E-17) PEAKING AMP
Q224(F-16) Q229(E-16) Q227(E-16) Q226 PEAKING AMP
Q222 POWER SAVE SW (F-17)
Q109(G-9) SOFT LIMITER
Q192 JOG/DCP SELECT (G-9)
(D-20)Q307 PB/EE SW
Q221 INV. (F-17)
Q232 EQ. (F-17)
Q303 (F-20) Q304 BUFFER
Q310 ATT (F-6)
Q311 BPF FREQ. SWITCH (D-20)
Q228 BUFFER (E-16)
Q223 PB Y MUTE (E-17)
Q301(F-20) REC C BUFFER
Q205 DAN202U (C-19)
CARR.
DEV
DEE MPH. IN LEV
C. BPF
C. E.
TO CT-40 BOARD W704
DATA TO SLVE
DATA TO MASTER
SCK

(See Page 119)


15
16
17
18
19
20
21
22
Q240(B-18) 6dB AMP
Q241(B-18) 6dB AMP
Q238(B-9) BUFFER
IC205 (A-8) REC/PB SELECT
(E, AUS MODEL)
(B-19) Q215 BUFFER
(C-15) Q216 TRAP
IC202 (B-12) 1H DELAY
Q001 AMP
Q210(B-16) AMP
Q211(A-16 EQ
Q002 EQ
Q212(A-16) BUFFER
IC201 Y PROCESS (D-16)
IC201 CXA1207
Y/C SEP
Q206 EQ (D-14)
Q209 INVERTER (F-15)
Q004 REC Y AMP (E-15)
Q005(E-15) REC Y AMP
IC206 REC/PB SELECT (E-14)
IC206 HA118070FP
Q201,202 PEAKING (F-15)
Q203,204 SWITCH (F-15)
Q250(E-15) BUFFER
Q252 (C-14)
Q219 (C-14)
Q231(E-17) PEAKING AMP
Q224(F-16) Q229(E-16) Q227(E-16) PEAKING AMP
Q226 BUFFER (E-15)
Q222 POWER SAVE SW (F-17)
Q225 PB Y MUTE (E-17)
Q232 EQ. (F-17)
Q358(B-19)
Q359(B-19)
Q360(B-7)
Q357(C-20) JOG SWITCH
Q311 BPF FREQ. SWITCH (D-20)
Q228 BUFFER (E-16)
Q223 PB Y MUTE (E-17)
Q362 INVERTER
C.BPF
C.E.
DEF MPH. IN LEV
CARR.
DEV


IC206
REC/PB SELECT (E-14)
IC206 HA118070FP
Q005 (E-15) REC Y AMP
Q250 (E-15) BUFFER
Q252 (C-14)
Q219 DAN202 (C-14)
Q222 POWER SAVE SW (F-17)
Q225 PB Y MUTE (E-17)
Q224 (F-16) Q229 (E-16) Q227 (E-16) Q226 BUFFER
PEAKING AMP
Q232 EQ. (F-17)
Q358 (B-19) Q359 (B-19)
Q360 (B-7) Q357 (C-20) JOG SWITCH
Q311 BPF FREQ. SWITCH (D-20)
Q228 BUFFER (E-16) Q223 PB Y MUTE (E-17)
Q362 INVERTER
IC204
JOG CHROMA PROCESS
PAL JOG
Q351 (E-18) PHASE SHIFT
Q352 (F-20) BUFFER
Q353 (B-7) BUFFER
Q354 (B-20) BUFFER
Q356 (B-20) C SYNC SWITCH
VIDEO BLOCK
IC201 CXA1207
IC203 CXA1208
no mark : VTR REC/PB mode
( ) : REC mode
< > : PB mode
* : Can not be measured
VA-70 BOARD (1/2)